Chapter 5 CRT Questions

1. The purpose of a loop is to repeat lines of code until a certain condition or statement is satisfied.

2. A Do-While loop performs an action and then checks to see if the condition is met, but a While loop checks to see if the condition is met, and then performs an action.

3. Guessing Game Part A Mastery

4. a) An infinite loop is a loop that continues without end.
   b) The loop can be infinite if the condition is always true. It can also be caused by a syntax error, which is normally due to a missing semicolon " ; " at the end of the statement.
   c) Overflow occurs when the value exceeds the limit defined in the code.

5. 60 Times

6. All values under 120

7. Accumulators get the sum/total of all the numbers, while a counter tallies the number of values.

8.
```
for (int i = 2; i <= 10; i++) {
int total = i;
System.out.println(total);
}
```

9. Choosing the correct loop structure should be based on if you want the program to run until a certain condition is met, or if you want the loop to repeat a specific number of times.